

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An image processing apparatus for correcting data of each pixel in an edge area, comprising:

a first judgment unit for judging whether a target pixel is in a first edge area by comparing an output from a differential filter with a first reference value;

a second judgment unit for judging whether the target pixel is in a second edge area by comparing the output from a differential filter with a second reference value that is smaller than the first reference value ~~having a lower intensity variation level than the first edge area~~;

a first correction unit for conducting first correction processing on data of each pixel that is judged by the first judgment unit to be in the first edge area; and

a second correction unit for conducting second correction processing on data of each pixel that is judged by the second judgment unit to be in the second edge area.

2. (Previously Presented) The image processing apparatus of Claim 1, wherein the data of each pixel includes a plurality of color component data,

the first correction unit conducts correction processing on at least one of the plurality of color component data differently from the other color component data, and

the second correction unit conducts correction processing on all of the color component data in a same manner.

3. (Original) The image processing apparatus of Claim 1, wherein the data includes chromatic color component data and achromatic color component data, and

the second correction unit conducts correction processing only on the achromatic color component data.

4. (Original) The image processing apparatus of Claim 1, wherein the data is a density value, and the first correction processing includes processing to increase or decrease the density value.

5. (Currently Amended) The image processing apparatus of Claim 1, wherein

the first judgment unit and the second judgment unit shares the a-differential filter, the differential filter outputting intensity variations among pixels surrounding the target pixel,

~~the first judgment unit judges whether the target pixel is in the first edge-area by comparing an output from the differential filter with a first reference value, and~~

~~the second judgment unit judges whether the target pixel is in the second edge-area by comparing the output from the differential filter with a second reference value that is smaller than the first reference value.~~

6. (Original) The image processing apparatus of Claim 1, wherein
the first judgment unit further judges whether the target pixel is a chromatic
color pixel or an achromatic color pixel, and
the first correction unit conducts different processing depending on whether
the target pixel is a chromatic color pixel or an achromatic color pixel.

7. (Currently Amended) An image forming apparatus, comprising:
a first judgment unit for judging whether a target pixel is in a first edge area by
comparing an output from a differential filter with a first reference value;
a second judgment unit for judging whether the target pixel is in a second
edge area by comparing the output from a differential filter with a second reference
value that is smaller than the first reference value having a lower intensity variation
level than the first edge area;
a first correction unit for conducting first correction processing on data of each
pixel that is judged by the first judgment unit to be in the first edge area;
a second correction unit for conducting second correction processing on data
of each pixel that is judged by the second judgment unit to be in the second edge
area; and
an image forming unit for forming an image based on the data corrected by
the first correction unit and the second correction unit.

8. (Previously Presented) The image forming apparatus of Claim 7,
wherein the data of each pixel includes a plurality of color component data,

the first correction unit conducts correction processing on at least one of the plurality of color component data differently from the other color component data, and

the second correction unit conducts correction processing on all of color component data in a same manner.

9. (Original) The image forming apparatus of Claim 7, wherein the data includes chromatic color component data and achromatic color component data, and

the second correction unit conducts correction processing only on the achromatic color component data.

10. (Original) The image forming apparatus of Claim 7, wherein the data is a density value, and the first correction processing includes processing to increase or decrease the density value.

11. (Currently Amended) The image forming apparatus of Claim 7, wherein

the first judgment unit and the second judgment unit shares ~~the~~ a differential filter, the differential filter outputting intensity variations among pixels surrounding the target pixel,

~~the first judgment unit judges whether the target pixel is in the first edge area by comparing an output from the differential filter with a first reference value, and~~

~~the second judgment unit judges whether the target pixel is in the second edge area by comparing the output from the differential filter with a second reference value that is smaller than the first reference value.~~

12. (Original) The image forming apparatus of Claim 7, wherein
the first judgment unit further judges whether the target pixel is a chromatic color pixel or a achromatic color pixel, and

the first correction unit conducts different processing depending on whether the target pixel is a chromatic color pixel or an achromatic color pixel.

13. (Currently Amended) An image processing method for correcting image data corresponding to an edge area, comprising steps of:

judging (a) whether a target pixel is in a first edge area by comparing an output from a differential filter with a first reference value, and (b) whether the target pixel is in a second edge area by comparing the output from a differential filter with a second reference value that is smaller than the first reference value ~~having a lower intensity variation level than the first edge area~~; and

conducting (a) first correction processing on data of the target pixel that is judged to be in the first edge area, and (b) second correction processing on the target pixel that is judged to be in the second edge area.